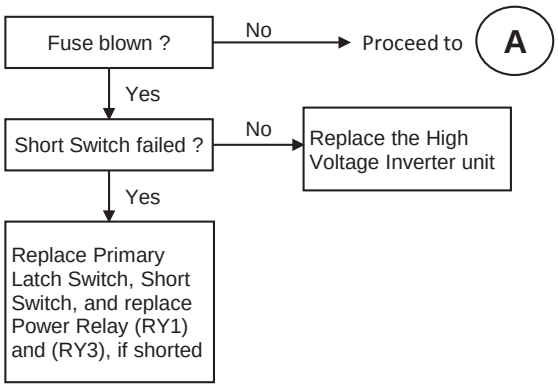
Troubleshooting the Magnetron and Inverter Circuit Areas

For Models: HMB5020, HMB5050, HMB5060, MBEB, MBES, MBESLFTD, HF35M630, BM281710, and BM281730

Before proceeding to the steps below, check all wire connections, verify that the Inverter Board ground screw is making contact, and confirm that the door Interlock Switches are making contact.



CAUTION. Always unplug the oven from its power source before touching any oven components.

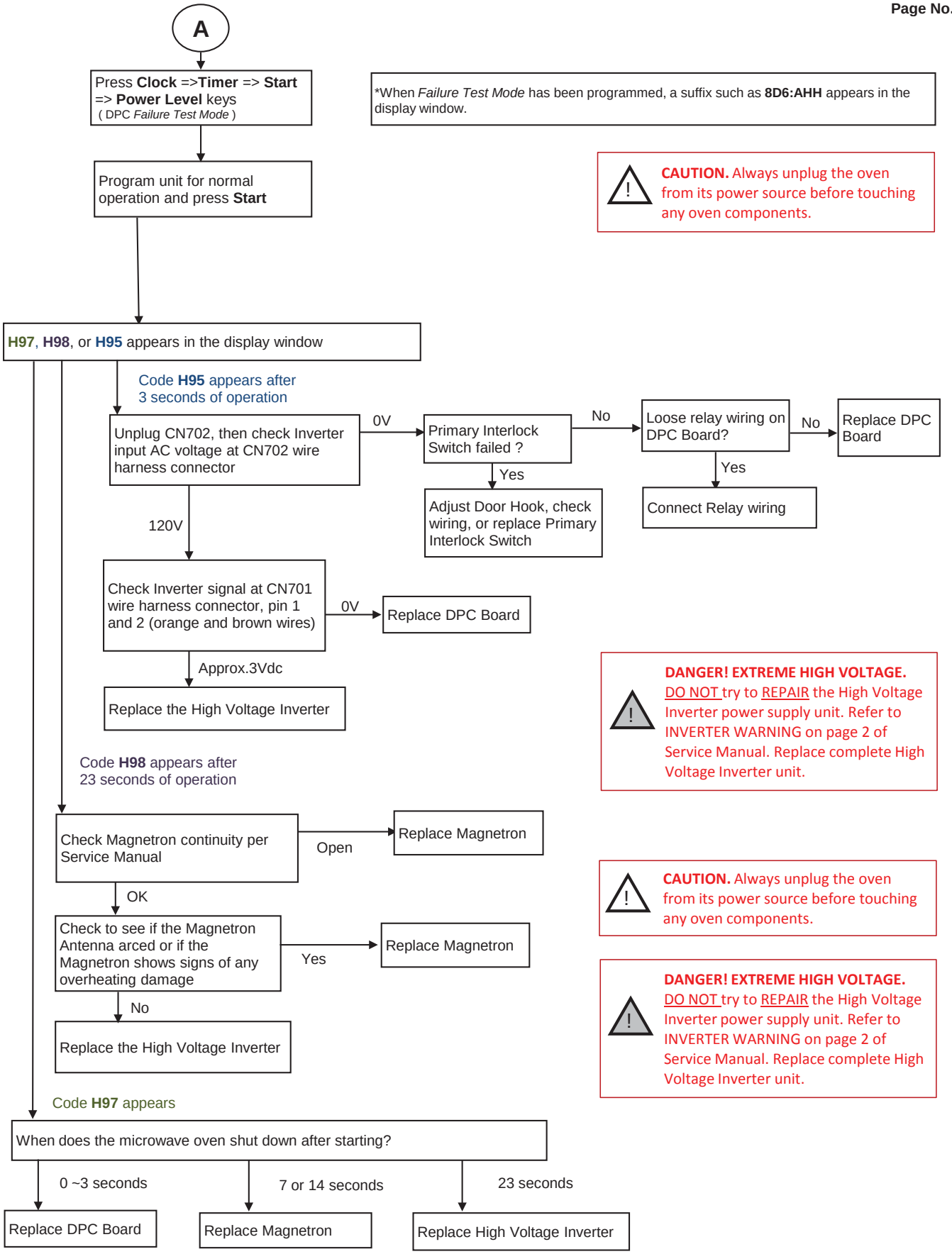
DANGER! EXTREME HIGH VOLTAGE.
DO NOT try to REPAIR the High Voltage Inverter power supply unit. Refer to INVERTER WARNING on page 2 of Service Manual. Replace complete High Voltage Inverter unit.

This oven is programmed with a self-diagnostic failure code system, which will help with troubleshooting efforts. H95, H97 and H98 are the failure codes which indicate a problem in the magnetron and inverter circuit areas. This section explains the failure codes of H95, H97 and H98.

To enable the DPC (Control Module) *Failure Test Mode…*
1. Sequentially press the **Clock, Timer**, **Start**, and **Power Level** keys.
2. Program the microwave for normal operation
3. Press **Start** key.

A short time after **Start** key is pressed and there is no microwave oscillation, H95, H97 or H98 will appear in display window.

See Section A in the troubleshooting chart that follows.


A
Press Clock =>Timer => Start => Power Level keys
(DPC Failure Test Mode)
Program unit for normal operation and press Start
*When Failure Test Mode has been programmed, a suffix such as 8D6:AHH appears in the display window.
CAUTION. Always unplug the oven from its power source before touching any oven components.
H97, H98, or H95 appears in the display window
Code H95 appears after 3 seconds of operation
Unplug CN702, then check Inverter input AC voltage at CN702 wire harness connector
0V
Primary Interlock Switch failed ?
No
Loose relay wiring on DPC Board?
No
Replace DPC Board
Yes
Adjust Door Hook, check wiring, or replace Primary Interlock Switch
Yes
Connect Relay wiring
120V
Check Inverter signal at CN701 wire harness connector, pin 1 and 2 (orange and brown wires)
0V
Replace DPC Board
Approx.3Vdc
Replace the High Voltage Inverter
DANGER! EXTREME HIGH VOLTAGE. DO NOT try to REPAIR the High Voltage Inverter power supply unit. Refer to INVERTER WARNING on page 2 of Service Manual. Replace complete High Voltage Inverter unit.
Code H98 appears after 23 seconds of operation
Check Magnetron continuity per Service Manual
Open
Replace Magnetron
OK
CAUTION. Always unplug the oven from its power source before touching any oven components.
Check to see if the Magnetron Antenna arced or if the Magnetron shows signs of any overheating damage
Yes
Replace Magnetron
No
Replace the High Voltage Inverter
DANGER! EXTREME HIGH VOLTAGE. DO NOT try to REPAIR the High Voltage Inverter power supply unit. Refer to INVERTER WARNING on page 2 of Service Manual. Replace complete High Voltage Inverter unit.
Code H97 appears
When does the microwave oven shut down after starting?
0 ~3 seconds
7 or 14 seconds
23 seconds
Replace DPC Board
Replace Magnetron
Replace High Voltage Inverter

For authorized servicers, additional assistance is available by contacting our Technical Support Team at (800) 444-9091.

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